



Note:- Shown is a 130 acre part of a 435 acre lease.

LEGEND

- Plotted from deed calls
- Surveyed lines
- Well Locations.
- County Line

OWNERSHIP

No coal in this area
 Fee ownership is vested in
 Gene & Louise Carr, Friendly, W. Va.



Minimum Error of Closure 1 in 200'

Source of Elevation USGS B.M. at Arvilla = 636

- Fracture.....
- New Location.....
- Drill Deeper.....
- Abandonment.....

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: [Signature]
 Squares: N S E W

Map No. _____

Company LAUDERMAN OIL & GAS CO.
 Address P.O. Box 266, Padon City, W. Va.
 Farm Gene & Louise Carr
 Tract _____ Acres 435 Lease No. _____
 Well (Farm) No. Two Serial No. _____
 Elevation (Spirit Level) 740
 Quadrangle Bens Run 7 1/2, St Marks 15'
 County Pleasants District Union
 Engineer [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date April 27, 1979 Scale 1" = 1000'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP

FILE NO. 47-073-0762

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

JUN 14 1979



1979

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

DEPT. OF MINES
Oil and Gas Division

WELL RECORDS

Quadrangle Bens Run
Permit No. 47-073-0762

Rotary Oil
Cable _____ Gas
Recycling _____ Comb.
Water Flood _____ Storage _____
Disposal _____ Open Pit _____
(Kind)

Company Lauderman Oil & Gas Drilling
Address 311 S. 3rd. Ave. Padon City, W.Va.
Farm Gene Carr Acres _____
Location (waters) Middle Island Creek
Well No. #2 Elev 746
District Union County Pleasants
The surface of tract is owned in fee by Gene
and Louise Carr
Address Friendly, W.Va.
Mineral rights are owned by Gene Carr
Address Friendly, W.Va.
Drilling Commenced Sept. 11, 1979
Drilling Completed Sept. 19, 1979
Initial open flow _____ cu. ft. _____ bbls.
Final production 1 mill. cu. ft. per day 10 bbls.
Well open 24 hrs. before test 500 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size			
20-16			
Cond.			
13-10"			
9 5/8			
8 5/8 X	200	200	
7			
5 1/2			
4 1/2			
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

Coal was encountered at No Coal Feet _____ Inches _____
Fresh water 80 Feet 90 Salt Water 1500 Feet 1550
Producing Sand Gordon Sand Depth 2500

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale	Gray	Soft	0	30		
Sand	Brown	Soft	30	40		
Lime	Gray	Soft	40	150		
Slate	Gray	Soft	150	200		
Slate	Black	Soft	200	220		
Lime	Gray	Soft	220	300		
Sand	White	Soft	300	370		
Slate	Gray	Soft	370	430		
Lime	ray	Soft	430	490		
Rock	Red	Soft	490	590		
Lime	ray	Soft	590	650		
Rock	Red	Soft	650	710		
Shell	Red	Soft	790	830		
Sand	White	Soft	830	870		
Slate	Brown	Soft	870	900		
Rock	Red	Soft	900	930		
Slate	Black	Soft	930	940		
Shell	Red	Soft	940	955		
Shale	Blue	Soft	955	1020		
Sand Salt	Brown	Soft	1020	1100		
Shale	Black	Soft	1100	1125		
Slate	Gray	Soft	1125	1200		
Sand Salt	Brown	Soft	1200	1290		
Sand Salt	Brown	Soft	1290	1340		

(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale	Blue	Soft	1340	1390		
Slate	Gray		1390	1425		
Sand	Gray	Soft	1425	1500		
Maxon Sand		Soft	1500	1535		
Lime	Gray	Soft	1535	1575		
Keener Sand		Soft	1575	1590		
Big Injun			1590	1615		
Shale	Gray		1615	1725		
Shell	Blue	Soft	1725	1880		
Shell Black & Brown		Soft	1880	1925		
Lime Shell	Gray	Soft	1925	1985		
Weir Sand		Soft	1985	2010		
Lime	Gray	Soft	2010	2100		
Slate	Brown Sand		2100	2150		
Shell	Gray		2150	2225		
Shell	Blue		2225	2310		
Lime	Gray		2310	2390		
Shell	Gray		2440	2490		
Sand	Gordon		2490	2485		
Shell	Gray		2485	3005		
Shell Sandy			3005	3010		
Shell	Gray		3100	3187		

Date _____, 19____

APPROVED G.W. Lauderman Owner

By Arthur R. Wetzel
(Title)



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

MAY 21 1979

Oil and Gas Division OIL & GAS DIVISION
DEPT. OF MINES
OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE May 3, 1979

Surface Owner Gene and Louise Carr
Address Friendly, W. Va. 26146
Mineral Owner Gene and Louise Carr
Address Friendly, W. Va. 26146
Coal Owner No coal in Pleasants County
Address _____
Coal Operator Pleasants left out
Address _____

Company Lauderman Oil & Gas Drilling
Address 311 South 4th Ave. Paden City, WV
Farm Gene and Louise Carr Acres 435
Location (waters) Middle Island Creek
Well No. TWO Elevation 746
District Union County Pleasants
Quadrangle Bens Run 7 1/2

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 1-29-80

INSPECT TO BE N Phillip Tracy
73 Dodd St.
ADDRESS Middlebourne, WV 26149
PHONE Ph: 758-4573

[Signature]
Deputy Director Oil & Gas Division

GENTLEMEN:
The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated November 1 1979 by Gene and Louise Carr made to Lauderman Oil & Gas and recorded on the _____ day of _____ 19____ in _____ County, Book _____ Page _____
 NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address 4th day May, 1979 before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Very truly yours, LAUDERMAN OIL & GAS DRILLING
(Sign Name) Phillip Tracy
Well Operator
Address 311 South 4th Avenue Street
of Paden City City or Town
Well Operator West Virginia State 26159

*SECTION 3 If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

47-073-0762 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."
Signed by [Signature]

[Handwritten mark]

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO DRILL DEEPEN FRACTURE-STIMULATE
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME Johnson Drilling NAME Ernest Herbold
 ADDRESS Rt. 6 Smith Dr., Marietta, Ohio ADDRESS P.O. Box 266, Padon City, W. Va.
 TELEPHONE 614-373-0877 45750 TELEPHONE (304) 657-2701
 ESTIMATED DEPTH OF COMPLETED WELL: 3200 ROTARY CABLE TOOLS
 PROPOSED GEOLOGICAL FORMATION: Gordon & Ohio Shales
 TYPE OF WELL: OIL GAS COMB. STORAGE DISPOSAL
 RECYCLING WATER FLOOD OTHER

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8	900' Cemented to surface		
8 - 5/8			
7			
5 1/2	4 1/2 Cemented thru payzone		
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 60-100 FEET SALT WATER 1700 FEET
 APPROXIMATE COAL DEPTHS 460 if any coal--Pleasants County left out
 IS COAL BEING MINED IN THE AREA? No BY WHOM? _____

TO DRILL:
 SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:
 SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:
 OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.
 OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.
 Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.
 We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title